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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/657,016	09/07/20	000	Shankar Iyer	UDN0003	1210
29989	7590 10/05/2004		EXAMINER		
HICKMAN	PALERMO T	ENGLAND, DAVID E			
1600 WILLO SAN JOSE,	OW STREET			ART UNIT	PAPER NUMBER
SAN JOSE,	CA 93123			2143	

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/657,016	IYER ET AL.					
Office Action Summary	Examiner	Art Unit					
_	David E. England	2143					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from s. cause the application to become ABANDONE	nely filed  is will be considered timely. It the mailing date of this communication. ID (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 19 July 2004.							
,							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under b	±x раπе Quayie, 1935 С.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
<ul> <li>4) Claim(s) 1-15 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> </ul>							
5) Claim(s) is/are allowed.							
	Claim(s) <u>1-15</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	or election requirement.						
C) Claim(c) are outgood to rection and							
Application Papers							
9) The specification is objected to by the Examine							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct							
11) The oath or declaration is objected to by the E							
Priority under 35 U.S.C. § 119							
		a) (d) or (f)					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the price							
application from the International Burea							
* See the attached detailed Office action for a list	t of the certified copies not receiv	red.					
Attackmont(c)	i i						
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [	Date Patent Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	6) Other:						

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#### **DETAILED ACTION**

1. Claims 1 - 15 are presented for examination.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 2, 4, 6, 7, 9, 11, 12 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Shah et al. U.S. Patent No. 6292832 (hereinafter Shah).
- 3. Referencing claim 1, as understood by the Examiner, Shah teaches a process for determining latency between multiple servers and a client across a network in a computer environment, comprising the steps of:
- 4. receiving a request for latency metrics on a content server, (e.g. col. 3, lines 15 35);
- 5. wherein said latency metric request specifies a particular client, (e.g. col. 16, lines 32 53 & col. 17, lines 28 40);
- 6. providing a latency management table, (e.g. col. 11, line 52 col. 12, line 2);

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- 7. wherein said latency management table comprises a list of IP addresses along with corresponding Border Gateway Protocol (BGP) hop counts, dynamic hop counts, and Round Trip Times (RTT), (e.g. col. 8, lines 17 30 & col. 13, lines 13 33);
- 8. looking up the latency metric for said client in said latency management table, (e.g. col. 8, line 48 col. 9, line 5 & col. 15, lines 36 56);
- 9. sending said latency metric to the requesting server, (e.g. col. 8, line 48 col. 9, line 5);
- wherein the BGP hop count for said client in said latency management table is used for said latency metric upon an initial request for said client, (e.g. col. 3, lines 24 50 & col. 18, line 57 col. 19, line 14); and
- wherein the dynamic hop count and RTT data for said client in said latency management table are used for said latency metric for subsequent requests for said client, (e.g. col. 3, lines 24 50 & col. 18, line 57 col. 19, line 14).
- Referencing claim 2, as understood by the Examiner, Shah teaches sending periodic latency probes to the IP addresses in said latency management table, (e.g. col. 15, lines 35 64 & col. 16, line 42 col. 17, line 10 & col. 17, line 51 col. 18, line 17);
- 13. receiving response packets for said latency probes, (e.g. col. 15, lines 35-64 & col. 17, line 51- col. 18, line 17); and
- 14. recording the dynamic hop count and latency (RTT) data in said latency management table, (e.g. col. 8, lines 17 59 & col. 14, lines 34 57).

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- Referencing claim 4, as understood by the Examiner, Shah teaches receiving requests for a content server address from said client, (e.g. col. 2, line 64 col. 3, line 35 & col. 8, lines 17 30 & col. 13, lines 13 33);
- sending a latency metric request to the appropriate content servers, (e.g. col. 2, line 64 col. 3, line 35 & col. 8, lines 17 30 & col. 15, lines 36 64);
- 17. receiving latency metric data from said content servers, (e.g. col. 8, lines 17 30 & col. 13, lines 13 33 & col. 15, lines 36 64);
- 18. determining the optimal content server for said client, (e.g. col. 8, line 48 col. 9, line 5 & col. 15, line 46 col. 16, line 20); and
- 19. sending said optimal content server's address to said client, (e.g. col. 8, line 48 col. 9, line 5).
- 20. Claims 6, 7, 9, 11, 12 and 14 are rejected for similar reasons stated above.

# Claim Rejections - 35 USC § 103

- 21. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 3, 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shah (6292832) in view of what is well known in the art.

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- 23. Referencing claim 3, as understood by the Examiner, Shah teaches all that is described above but does not specifically teach periodic latency probes are sent to a higher level server of a client by masking said client's IP address in said latency management table.
- 24. Examiner takes Official Notice (see MPEP § 2144.03) that " masking said client's IP address " in a computer networking environment was well known in the art at the time the invention was made.
- 25. It would have been obvious to one of ordinary skill in the art at the time the inventions was made to utilize masking said client's IP address in said latency management table with Shah because this will add security to a network and also in the act of transmitting an IP address.

  Masking an address allows the users to hide or "mask" parts of the address to hackers or other internet users that might try to find an IP address so to get access to that IP address's device.
- 26. Claims 8 and 13 are rejected for similar reasons as stated above.
- Claims 5, 10 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shah (6292832) in view of McCanne et al. (6415323) (hereinafter McCanne).
- As per claim 5, as understood by the Examiner, Shah teaches all that is described above that is in association with claim 5 and also teaches determining step gathers the expected latency metrics and said latency metric data in a weighted combination with the RTT in said latency metric data to determine which latency metric data indicates the optimal content server and

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dynamic hops, (e.g. col. 9, line 44 – col. 10, line 21). But does not teach using the inverse relationship of hop counts. McCanne teaches using the inverse relationship of hop counts, (e.g. col. 18, lines 35 – 48). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine McCanne with Shah because using an algorithm to find the optimum path for a client would insure that the client utilizes the network to the fullest capability for the fastest delivery of information on the networks.

29. Claims 10 and 15 are rejected for similar reasons as stated above.

### Response to Arguments

- 30. Applicant's arguments filed 07/19/2004 have been fully considered but they are not persuasive.
- 31. In the remarks, Applicant argues in substance that Shah and McCanne do not teach the claimed invention as stated above.
- 32. As to part 1, Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

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### Conclusion

- 33. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 34. a. Shah et al. U.S. Patent No. 6298381 discloses System and method for information retrieval regarding services.
- 35. b. Shah et al. U.S. Patent No. 6795860 discloses System and method for selecting a service with dynamically changing information.
- 36. c. Maki-Kullas U.S. Patent No. 6650621 discloses Load balancing routing algorithm based upon predefined criteria.
- 37. d. Thomas et al. U.S. Patent No. 6665271 discloses System for real-time prediction of quality for internet-based multimedia communications.
- 38. e. Oehrke et al. U.S. Patent No. 6735631 discloses Method and system for networking redirecting.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. England whose telephone number is 703-305-5333 and 571-272-3912 as of Oct. 28th. The examiner can normally be reached on Mon-Thur, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on 703-308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David E. England Examiner Art Unit 2143

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